the Cannon
NOVEMBER 5TH 1998
VOLUME XIV ISSUE III
THE OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY

Faculty Reps Lose Right To Vote

by Julian Dunn COMP 0T0

A proposed amendment to the Engineering Society's constitution resulted in heated debate at Eng Soc's Annual General Meeting, held on October 29.

The amendment, which passed with the required two-thirds majority, reduced the number of voting Councillors from seventy-four to thirty-seven, in addition to the twenty-seven executive votes. The reduction was accomplished by removing the voting power of the Faculty Council representatives, and leaving the Eng Soc rep in each class with the vote.

VP Internal Binh Ha gave several reasons why the Society decided to remove Faculty Council reps' voting power. The primary reason was low attendance. For instance, at this particular AGM, sixteen of the thirty-seven FC reps failed to attend, even though their attendance was mandatory. The executive claimed that it is easier to work with a small group of people, and without a vote, FC reps are no longer required to attend all full meetings.

Another argument put forth in favour of the amendment was that Faculty Council reps only represent the student body on Faculty Council, which looks after administrative aspects of the Faculty. Having two reps per class — one Eng Soc rep and one Faculty Rep — seemed redundant, according to supporters.

However, opponents of the amendment argued that by removing thirty-seven votes, the balance of power is shifted to the executive, who now have 27 out of 64 votes, or forty-two percent. (A fifty percent majority is required to pass most regular business.) They argued that the executive could easily manipulate a few Eng Soc reps and hence be able to ram any bill through.

The amendment is a scaled-down version of the proposal discussed at this summer's executive meetings. In that proposed amendment, voting rights of all reps would have been removed and only the executive would have been permitted to vote. The executive decided against such a move, saying that students must be given a say in multiple ways.

Even though their constitutional voting rights have been abolished, Faculty reps may still vote if they are present at a meeting, but their Eng Soc rep fails to show up. In fact, any voting member may appoint someone to sit in his or her place at a meeting, and enter a vote. This "voting by proxy", previously prohibited in the constitution, was another amendment passed at the AGM.

Finally, the third major issue of business was to change Secretary Binh Ha's title to VP Internal, although her duties will remain the same. A proposal to amend her duties to "maintain relations between the members of the Society and the Faculty of Applied Science & Engineering" was deleted because it was thought the new duties might infringe on those of the Executive Faculty Council Representatives (EFCR).

Please see the sidebar for a complete list of changes to the constitution.

Highlights of Constitution Changes

- ☑ membership fee increased from $58.87 to $87.67 ($32 to Career Centre)
- ☑ members may not hold any office more than once
- ☑ Councillors reduced from seventy-four to thirty-seven
- ☑ proxy voting allowed by Faculty Council reps if Eng Soc rep not present
- ☑ "pub managers" appointed position changed to "Suds managers", and Web-site coordinator added to list of appointees
- ☑ quorum changed to fifty Members present
- ☑ added mandate of the Blue and Gold Committee
- ☑ added duties of High School Liaison Committee
- ☑ removed Engineering Alumni Association rep and Faculty Council rep as non-voting Executive members
- ☑ removed RESSA from responsibilities of VP External
- ☑ added responsibility of VP Activities to include chair of Orientation Review Committee
- ☑ added responsibility of VP Internal to include Web Site Committee
- ☑ added responsibility of VP Finance to include Engineering Stores
- ☑ amended publishing policy of Cannon to include responsibility to inform Members about past, present and upcoming events (removed from publishing policy of Toike Oike)

Vandals ruin sword monument

by Neil Brewster ENG SCI 9T8

"FOR HE THAT IS BLEMIST WITH THIS BRODE BANDE BLINNE SHALL HE NEVER"
— Alliterative Morte Arthure, Anonymous, 1440

Just over a month ago, a group of engineering students erected a monument outside the Sir Sandford Fleming Building. The Sword in the Stone monument was approved by the Building Manager and was meant to be a permanent fixture. It was erected to symbolize the strength and spirit of the Engineering Skule™.

On the night of October 13th, vandals broke the hilt off the sword. While vandalism is not unusual on a university campus, this act stands out. This monument was largely funded by students and alumni, and a small group of students invested an incredible amount of their own time and effort into creating this monument. The sword and the stone made all engineers here proud, especially those who broke their backs putting it up.

The vandals remain anonymous. However, it is not their identity which is important. What stands out here is that someone would be so thoughtless as to destroy something which may mean nothing to them, but represents the pride and hard work of many others.

Excalibur... a distant memory

U of T engineers tops off U of T Day Openhouse with a BANG!!!!

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the Cannon
THE OFFICIAL NEWSPAPER OF THE UNIVERSITY OF TORONTO ENGINEERING SOCIETY

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SPECIAL THANKS TO
Julie Wilkinson
Weller Publishing Co.

and

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Christen Taylor

Established in 1977, THE CANNON is a monthly publication of the University of Toronto Engineering Society, with a circulation of two thousand five hundred copies throughout the University of Toronto St. George Campus. The mandate of THE CANNON is to publish information that is pertinent to the interests of the engineering student body.

Subscription information is available from Julie Wilkinson at the Engineering Society at (416) 978-2917.

For advertising rates, production deadlines, and other information please contact Engineering Communications office at (416) 978-5377.

PLEASE NOTE
THE CANNON is a medium through which undergraduate engineering students can express their opinions. The views expressed herein are those of the author and do not necessarily represent those of the editors or the Engineering Society unless so indicated.

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Editorials

More to life than computers...

by Albert Lee COMP 9T9

Frosh week has come and gone and I promised myself that last month would be the last time I'd mention orientation... oh well, one more time wouldn't hurt...

During this year's orientation, I observed that there were many more Computer and Electrical engineering frosh and I was curious why. It just so happens that the growing trend in the computer industry has been recognized by the Faculty and as a consequence, they've decided to open its doors and accept more students in the ECE department; the overwhelming number of applicants may have also influenced their decision slightly. Now what did this mean? Many ideas swam through my head and after talking to some undergrads, I had realized why: Jobs. My overall impression was that in a rapidly changing economy and the revolutionary Information Age, computers were the way to go. That meant that in order to secure a job, you'd better be in Computer or Electrical engineering (or Eng Sci for that matter). Of course that brought up another disturbing thought. If the only way to get a job after university was to be enrolled in ECE or in Eng Sci, would that imply that students who were not in these disciplines inferior?

Unfortunately it may seem this way. In order to get into a program of your choice, you must have a graduating average within a certain range of marks. Each program has a different range assigned by its difficulty. If you could not attain those marks, you couldn't get in. Thus we can assume that each program is ranked by its entrance requirements: Engineering Science being the hardest to get in and Geological Engineering being the easiest. Almost like a hierarchy, or ladder, with Eng Sci at the top and Geo at the bottom. With this in mind, could you say that, much like a corporate ladder, everyone is trying to get the top of this engineering ladder? Or, if you are at the top, are you better than those below you? The answer is no. Unfortunately many of us joke about this issue and like the controversial artsie-engineer rivalry, it too has permeated into the engineering belief system. Many of us feel that one engineering field is superior to another. However the fact is, we are all equals.

Unlike the job-industry would lead us to believe, all disciplines are viewed as equal. That is to say, if the computer industry was the only viable field of engineering, the Faculty would've cancelled all the others disciplines by now. Yet they haven't done so and that's why there are nine different engineering divisions out there; each of them catering a unique field of study. Remember, there's more to life than computers. Furthermore, all disciplines, whether it be Comp or Geo, have equally challenging and demanding work-loads. Some are more geared towards field work and others towards problem-sets. The entrance marks just create a dilusion of the work ahead.

Remember, all engineering disciplines should be treated equally. Comps are no smarter than Geos, Mechs are no better than Chems; we study different things but we all become engineers. Sure, the industry doesn't think so, but with the right attitude, I think we can change their minds.

Important Cannon Dates
- Article Deadline: Nov 20th
- General Meeting: Nov 7th
- Layout Meeting: Nov 14th

All meetings in Eng Com at 5:00p.m.
Drop off articles in Eng Soc or e-mail to: cannon@skule.ca

Why all the constitutional fuss?

by Karen Virk ELEC 9T9

Once every so often, engineers can escape from their apathetic dens of security and let out the deeper, smoldering passion that lies within. All that is needed is a reason. Perhaps it is the moon cycle which govems the infrequent outbursts of Skule™ indignation or perhaps once in a while, when engineers have had enough of holding in their emotions, they need an excuse to let it all out. The most recent example of this is none other than the last AGM, otherwise known as the Annual General Meeting. For the first time in 4 or 5 years it was decided upon to change our Engineering Society Constitution.

Interestingly enough, this comes across as an obvious curiosity. In the eyes of this mere second year, it seems that not many people cared about changing the constitution at all in the years past, and all of a sudden, a flurry of dissension arises over the wording, meaning and connotations of a few previously forgotten paragraphs. How coincidental; this brings to mind another constitution that once in a while, after forgotten for a requisite amount of time, comes to light with proclamations of distinct societies. It seems that constitutions are just one of those ideal concepts for releasing pent-up anger and stress.

Although I must confess, I too was a victim of my emotions at the AGM, valiantly protested and defended issues which are probably irrelevant to my daily life. What can I say? I'm a sucker for a good fight to combat the daily monotony of life.

Probably the only thing I greatly disagreed with, was the stance in the constitution on voting by proxy. I feel, without a shadow of a doubt that the only people that should be able to vote on behalf of a constituency are those who have been elected by it. I have no problem with the idea of voting by proxy, I am only uneasy with the thought of who is able to stand in for that vote. If for any reason a member of the full council cannot make a club exec meeting, only someone else elected by the same constituency should be able to stand in. For example, say a club chair cannot attend, only another elected member of the club exec should be able to express the opinion of the club.

As for the issue of faculty reps losing their votes, I must say that I agree on that point. There is no reason to have two class reps expressing the opinions of the students. *Every* member of the executive committee is there to represent the students and have been elected into position. Reducing the number the council is most certainly a positive move.

In any case, in the long run, it doesn't overly matter what the outcome of the constitution changes were. It will most certainly be changed again once someone remembers that it exists and we must admit, it did provide for an excellent reason to rant and rave and generally cause a stir. Well then, same time next year?

Engineers' behaviour is childish

Re: The Editor's wise words of wisdom (Oct. 4, 1996).

I tend to differ, and will try to explain to you why the childish attitude of engineers is detrimental to yourselves and to the university.

The primitive tribal ceremonies that you teach your frosh are very similar to many forms of indoctrination within groups in society. An example of similar practices exist in racist groups where there is social pressure to assimilate a dislike for another group. When you say that it is not to insult Arts and Science students but to inspire Skule™ spirit, two things come to mind: First, that you obviously lack anything of significance to inspire those new engineers that join you (and must therefore resort to this frat boy attitude), and that you are trying to find an excuse for the unexplainable attitudes which you possess.

We all know the way it works: A poor frosh shows up and you tell him/her that he/she is great just for being your frosh, not like everyone else's (is it so bad that you have to say it so many times so that they believe it?).

This year's frosh week saw a whole bunch of you dressed up. It seemed you were shouting at the buildings; many of the poor young frosh were embarrassed by what they were being made to do. The worst part is that it is the ones that have been here for a few years, that perpetuate this stupidity. A rivalry between Arts and Science students and you? Come on! Do you really think so? Except for your parade every year and the Toike Oike we have no idea of who you are and we don't care. We don't mention you in our newspapers. You keep on trying to call us your rivals, and we have no intention of playing this childish game that can only come from lack of anything better to do. I would like to point out that this attitude could give the wrong idea that engineers have an inferiority complex. It is well known that many of your activities are an attempt to increase self-esteem and pride within your group by making yourselves believe that you are better than the rest. Is there a need for that? And is being an engineer the only thing that will pull you through?

Cecilia Natalia
Non-Engineer

Opinions

Letters To The Editors

Eng Soc Annual General Meeting was poorly run

On Tuesday October 29, the Engineering Society held its Annual General Meeting, at which every member of Skule™ was invited to attend and vote on the various issues that were presented that night. It ran from 6:00 p.m. to 8:00 p.m. and it did not see a great attendance rate given the late hour.

I am writing to express my great dissatisfaction with the way the meeting was run. Apparently (and I was unaware of this prior to the meeting), Annual General Meetings are the only time of the year when major changes to the constitution are tabled and voted upon. As well, all Skule™ members, not just the class reps, are able to vote on issues presented. I took great exception to the fact that the Annual General Meeting did not announce these two key facts.

I was also very unhappy to note that the executives did not adequately announce the issues that we were to vote on that night. The two major points of contention were 1) changing the title of Secretary to Vice President–Internal for the Engineering Society Executive position and 2) releasing Faculty Council Representatives from the requirement that they attend Engineering Society meetings, at the expense of their voting privileges at Engineering Society. Because these constitution changes can only be presented at this one meeting during the year, there was insufficient time to debate the issues at hand properly. At the meeting, the first hour-and-a-half was spent on the regular Engineering Society procedures, such as hearing reports from the various committees and club chairs but with something as important as constitution change, could we not have had a separate meeting for the exclusive purpose of debating over the proposed changes, and moved the regular procedures to another time? Given the lack of pre-information, and limitations of time, it would appear that these changes were being rammed through the assembly.

It would be a great privilege if some changes were made in running the most important Engineering Society meeting of the year, unaware as most of Skule™ is of its existence. However, it is unlikely that I will be able to do more than express opinions on behalf of my class in a Skule™ publication, (having now lost the vote to back up them up in Eng.Soc.)

Vera Kan
CIV 9T9 Faculty Council Representative

Stripping the society?

On Tuesdey, October 29th, the Engineering Society reached e decision that I think people should be aware of. The Society's Constitution was emended such that the students elected as Faculty Council representatives are no longer required to attend Engineering Society meetings.

On the surface, that seems reasonable and harmless enough, but the implications are significant. Because they are no longer required to attend Society meetings, Faculty Council reps also have no voting rights there (they have become the same as the rest of the student body; free to attend but with no official status on the Society's Full Council). The result is that (excluding Club Chairs) there is now one vote per class on the Council instead of two; 36 directly elected class representatives instead of 72.

Any decision which tends to move the powers of policy from the many to the few sets a dangerous precedent. Particularly in a body such as this, plagued by a lack of student confidence and student interest, it seems unwise to reduce the voice of the students in the Council, and shift more authority to the Executive members. It increases the perception that the Engineering Society is run by a small clique, whose interests are far removed from those of the student body. It is unfortunate, but the Engineering Society is perceived by many to be a bi-partisan council, with the Executives on one side, and the Club Chairs and Class reps on the other. The Society recognizes this perception, recognizes the problem, and is trying to do what it can to restore student spirit, participation, and a feeling of inclusiveness. There have been some commendable efforts in this regard, but doesn't this decision seem like a giant step backward?

While it is true that the Class reps maintain a majority in the Council (36 Reps to 22 Executives), it is such a slender margin that in reality (given traditional attendance levels) it is no majority at all. And attendance really is the problem. There is such a great amount of apathy about the activities of the Society that most Class reps don't attend meetings anyway. This is part of why it was so easy to wipe away the Faculty Council reps' voting rights; there is the perception (largely confirmed by a long history of non-participation) that the Class reps really don't do much. But at least, in a pinch, they were people who could be rallied when a truly significant issue arose; they formed a base of student support that could be called upon at need, if there was a fear that the Executive Council was not adequately representing the will of the student body. Now that base of support has been critically undercut.

I have a great deal of respect for the Officers of the Engineering Society, and faith in their good intentions. I agree that it is strange that the Faculty Council reps have a seat on the Engineering Society Council when the Engineering Society reps have no status at all in the Faculty Council. Perhaps what we need is to have two Society reps per class instead of one, to maintain the traditional numbers while eliminating the rather unusual dual role of the Faculty Council reps. But I doubt that that will ever happen, now that the so many of the voices likely to support such a measure have been removed from the Society Council.

Kern Ainsworth Lewin
ENG SCI 9T7 and Eng Sci Club Chair

Eng Soc responds

by Lucy Pegoraro INDY 9T8

As an officer of the Engineering Society, I feel that I have to comment on the articles written by Vera Kan and Kern Lewin concerning the constitution changes, and about our Annual General Meeting held on October 29th, 1996.

I greatly appreciate the concern that these two individuals have for their Engineering Society. Expressing frustration and commenting on what is being done is a great sign of devotion. If only every student were as passionate as the both of you!

However, I would like to comment on some of the points that were made. Firstly, Vera said in her article that every Skule Member was allowed to vote in this Annual General Meeting. This is a misconception. Only Class Reps and the Executive Council of the Engineering Society are allowed to vote. It is true that any engineering undergraduate student is allowed to come and voice their opinions at the meetings, but voting power is strictly limited to those who have been officially elected to voice the opinions of the students.

Before the constitution changes were made this year, we obtained feedback from the student body. We asked people what they thought, and since the feedback was positive, we decided to propose these changes to the Full Council on October 29th. We would never try (because it is democratically unethical and politically not allowed) to pass anything through Council if it did not receive the majority of the students' support through their representatives. We also advertised by e-mail and gave notices to class reps about this meeting, notifying them about the importance of the Annual General Meeting. Also, some of the proposed

SEE "Eng Soc responds", page 12

Where Is The Engineering?

by Michael Bonert MECH 9T8

Nowhere on the bachelor degree granted by the *Faculty of Applied Science and Engineering* is the word engineer or engineering. The title of the degree, *Bachelor of Applied Science*, is an insulting and absurd relic of the past that should be done away with. Engineering is a distinct profession that is fundamentally, historically and culturally distinct from science. The term 'applied science' was adopted only to avoid the word *engineering*. The term 'applied science' is confusing to the public. Engineers should have pride in their profession and call it by it's true name.

Engineering has always been a distinct profession having its own history and culture separate from that of science. The origins of engineering are found in the military and the trades. The basic philosophy of the engineer is much different than that of the scientist. Engineers approximate and make educated guesses this is contrary to the general (exactness) philosophy of science. Engineering deals with manufacture, design, dependability, and innovation. Science deals with documenting, classifying, and explaining. The term 'applied science' is misleading and disrespectful to the roots of the grand old profession of engineering.

In the beginning, the school of engineering (which would soon become U of T Engineering), was not taught by engineers. Engineers at that time, after the English tradition, were experienced and learned tradesmen. The academics that formed Skule™ wanted nothing to do with the tradesmen. In the original name, *School of Practical Science*, engineering is *nowhere* to be seen. The term 'applied science' —still in use today— was used to avoid using the word *engineering*. It was not until later (in the early 1900's) that the faculty adopted 'engineering' into it's name.

Engineering and science have grown together over the last century. It is true that engineers use the same fundamental physical laws as scientists. It is indisputable that science and engineering have things in common. The term 'applied science' is however unjustifiable because the word engineering is more encompassing and in larger general usage. Engineering is the perfect word for the profession. Why do some engineers describe themselves as an outgrowth of science? Scientists use mathematics. Do they call themselves 'applied mathematicians'? Using the term 'applied mathematician' to describe a scientist is as ridiculous as is applying the term 'applied science' for engineering—yet that is what is done! The origins of the term 'applied science' should be understood. It is not the similarity between science and engineering that lead to the forming of the term!

The term 'applied science' was adopted in an attempt to elevate the social status of the engineering profession. The term has done little more than confuse the public as to what engineers really do. It has blurred the dividing line for the general public for what are two distinct professions. The word scientist for many people conjures the image of an absentminded guy in a lab coat with messy hair. With that image of the scientist in mind, it is no wonder that the general public does not realize that it is engineers who make the products they use. The words 'applied science' confuse the public. Why don't people who call themselves 'engineer' have 'degrees that say engineering'?

There are a number of fundamental differences between science and engineering. The use of the term 'applied science' is unjustifiable because the word engineering more accurately describes the profession. The term 'applied science' is confusing to the public. The term was introduced to avoid using the word engineering. Engineers should have pride in their profession and it's history and call it by it's true name: *engineering*. It is time for the faculty to start granting bachelor degrees that say engineering.

Skule™ News

Report From The PEO/UES Conference

by Lucy Pegororo INDY 9T8

The Professional Engineers Ontario/ Undergraduate Engineering Students (PEO/UES) Conference 1996 was hosted by Guelph Engineering this past October 3rd to 6th. This was another of the conferences made available to Engineering students through the Engineering Student Societies Council of Ontario (ESSCO). The U of T delegation was made up of Thaddeus Nettleton, Tina Piper, and Andre Taylor.

The theme of this conference was "Issues in Engineering: Approaching the Next Millennium." The first speaker was Lambert Otten, Director of the School of Engineering, University of Guelph. The second was Peter W. Ridout, President, PEO 1996. Both speeches focused on the future of engineering in Ontario. An interesting topic was also addressed about the need for a quality education structure which will allow North American engineering students to remain competitive in the modern world. There were a couple of other speakers from Guelph-area industry discussing engineering applications in the workforce.

A group discussion with a representative of PEO focused on the future of Engineers in Ontario and, in particular, the new licensing model for application to PEO. It was discussed that the licensing procedure is changing to mandate four years experience before membership of PEO. However, it was also discovered that with the new model, undergraduate work experience would be considered. A new initiative of PEO is increased awareness and advertising of engineers and engineering applications. As part of this initiative, the engineering students screened the recent television commercial produced by PEO. The commercial featured many everyday objects of which engineering is an integral part. The commercial can likely still be seen during evening television on Canadian stations.

One afternoon of the conference was reserved for an ESSCO meeting. This was a chance for all schools to hear from the executive after the first month of their term. The ESSCO President Julian Wright. (U of T); Vice-President: Education Eloise Harvey (McMaster); and Vice-President: Finance, Jason Worry (Waterloo) each gave a brief outline of their current status and future plans. The meeting was kept short as the ESSCO executive decided to wrap-up the weekend's business and begin an inter-school version of the Liar's Club. The U of T delegation tied for first place.

Further information about PEO, ESSCO, or the ESSCO conferences may be obtained from the Engineering Society VP External, Lucy Pegoraro.

CONFERENCE ON WOMEN IN ENGINEERING COMMITTEE

DATE: Thursday, November 14th, 1996 at Queen's University in Kingston

Both Men and Women are encouraged to attend!

THEME: Challenging The Face of Engineering

If you are interested in attending, please leave a message in the VP External mailbox in Eng Soc.

Explaining The Popularity Of PEY

This week (on November 8th) the applications for next year's Professional Experience Year students will have been handed in. They will have paid $35 in order to participate in the application and interview process, which by no means guarantees them a job. Yet many students, including those in second year who may not have enough experience, are applying for PEY. What is it about PEY that draws so much attention from U of T engineering students?

First, there is the salary. Post-secondary education is getting more and more expensive (as you have probably heard about in the media or felt in your bank account.) The PEY salary, which averaged at approximately $27,500 last year (1995-1996), is a great help for most or a welcome sum for others.

Second, PEY is excellent job experience. Twelve to sixteen months of working in a well-known company is an extremely impressive feature on a resumé and allows one to become familiarized with the engineering profession on a first-hand basis. For others, the opportunity to take a year off of school to experience the dynamic arena of the high-technology workplace is another great draw. It is obvious then that PEY is a tremendous personal and professional development tool.

Third, some lesser known facts. An overlooked aspect of the whole process is the time and energy it takes to obtain and secure a job. It requires even more effort to find a job that one will enjoy, that will pay well, and that will apply to one's area of study. If anything, the Professional Experience Year will teach one not only engineering skills but also job searching strategies, networking and interview techniques. According to some in the Career Centre, the interview experience from PEY is the next best thing since the creation of the UNIX operating system!

However, no matter how well one has done research on a company or presented oneself during an interview, one has to remember that a company hires employees for their skills. This is not to say that "soft" skills like teamwork and communication skills are unimportant but that one must not neglect looking at the job market (of which the PEY employers are a microcosm) to see what is needed in terms of technical skills.

A short interview with Donna Onyshuk, who is responsible for the PEY program, yielded some interesting statistics and insights into PEY which may act as a quick approximation of the engineering job market as a whole.

Most notable was the domination of PEY applications and successful placements by Mechanical and Electrical Engineering students. This has been the case ever since PEY's creation in the 1980s. To illustrate, Mechanical and Electrical engineers represented 17% and 28% of engineers respectively in the United States in 1993* yet the PEY application and placement rate for these two disciplines has been well in excess of these numbers.

Since the early '90s, however, the number of Engineering Science students hired has increased, catching up to both the Mechs and Elecs and surpassing both in 1994-1995. (Eng Sci has reverted to second position this year after a big increase in demand for Mechs.) Ms. Onyschuk suggested that the increased hiring of Engineering Science students is due to increased awareness about the program and what it stands for. Previously, people were simply not aware that it existed or were unsure of the kind of training that Eng Sci students had.

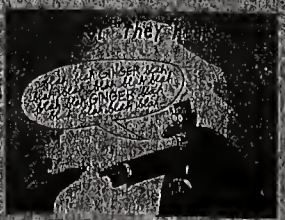
The low hiring percentage of Civil Engineering students (placement rate was only 15% last year) was a salient feature of the data and Onyshuk was quick to point out the sad reality: there are far fewer Civil Engineering positions available despite "very high interest and talent from our Civil Engineering students." She also indicated that there could very well be a reversal of that trend in the medium and long term with the advent of the new environmental component of the program.

For the past two years, Computer Science students have had higher placement rates than Computer Engineers which may confirm that there are more software jobs than hardware positions. In any case, in-depth knowledge of programming languages, whether one is enrolled in Computer Engineering or Computer science, is strongly in demand.

Given all the possibilities PEY offers, it is not surprising to see the increase in demand for PEY positions. Being a great addition to the regular Skule™ curriculum, it is hoped that PEY will continue to grow and improve in the future.

* New BLS Industry-Occupation Data Available with Projections to 2005, Engineering Workforce Commission of the AAES, 1994, *http://fre.www.purdue.edu/ESCAPE*

Are you lacking communication skills?



by Franny Jewett, CIV 9T7

Is this what people hear when you speak?

What one skill do you think every person in your class will use when they graduate? What same skill will get jobs? That's right! Communication, a skill that has not been sufficiently emphasized in our Faculty.

So far, the only department with a course in oral communication is Chemical. This seems strange to me as reports show that employers of engineers are looking for superior communication skills as well as increased awareness of global issues and excellent problem solving skills. This, from all engineers. Also, two of these abilities are not specifically developed by most of U of T's Engineering programs.

Thus the Engineering Society has decided it's time to improve your education. We have asked the Faculty to put a high priority on teaching these skills, meaning we want them in our curriculum by 1997-1998!

In the meantime, the Society has initiated a pilot project; an oral communication course. It is being held once a week for four consecutive weeks, and started October 24th. The course consists of the basics of oral communication, practice presentations in front of the class, and mock interviews. We will be repeating the program in the spring so keep your eyes and ears open for your next opportunity to sign up!

Days of Action: Why Protest?

by Adam Devita ELEC 979

Why were the people protesting?

This is a brief overview of some of the groups that participated in the Days of Action which took place on October 25 and 26. The protesters took to the streets to show their frustration, and tried to get some attention from a government that avoids listening to citizens, debating bills with the opposition, and attending public forums.

The government promised tax cuts and a balanced budget. To keep these promises huge spending cuts are needed, above and beyond what the previous government's deficit was. Many groups feel that they have been hard done by.

Some notable groups were:

Students: Post secondary students have had increased tuition. This makes life harder on students, who must endure greater debts, if they can afford tuition at all. Higher tuition makes education less accessible for everyone, and decreases our future global competitiveness because more people will lack skills.

Educators and teachers: In the Common Sense Revolution, the Progressive Conservative Party stated that all money saved from funding cuts to education will a) be reinvested into education, b) not affect the classroom. Teachers now have larger class sizes, and believe that the government is failing to keep its promises.

Organised Labour: The unions started the idea of the mass protest. The march was originally planned to protest the first law passed by the current government. This law was to remove a bill passed by the previous government that prohibits strike breaking, and enforces workers' rights. The unions believe that workers' rights and safety are in jeopardy.

Anti-Poverty groups (Social workers, food banks, etc.): The anti-poverty groups were marching because the government cut welfare rates by 21.6% without studying the consequences. They have witnessed demand for food banks swell to record numbers. "More than half of food bank recipients are children," stated the Richmond Hill food bank organizer before Thanksgiving. Recent reports suggest the majority of people who no longer get welfare (who were contacted by phone) found jobs. 500 less of those (ex-welfare recipients) not polled did not have telephones any more. The survey did not find out how many are now homeless. The anti-poverty groups see Ontario becoming harder on the poor and injured.

Government sponsored "co-operative housing", a cost effective plan to provide affordable housing and day-care has been cut completely.

By September 1996, "Work fare" programs have produced exactly zero jobs for those on welfare. Anti-poverty groups note that the type of jobs the government is trying to produce will not give skilled work experience to the people. People with work fare experience will be well qualified to dig ditches, rake leaves, and other low skilled, low wage jobs. This will not help to reduce poverty.

Abused Women's Groups: Abused women say the government is not helping to prevent abuse in the home. Shelters have seen their government grants cut. Abused women are some of the most vulnerable people and need government help, not neglect.

More Women's Groups: Women's groups were also protesting an "anti-worker/pro-owner law". The loss of Employment Equity legislation (passed by the previous government) has set back another labour issue: wages and gender equality. The gap between men's and women's wages has increased recently, contrary to the trend of the last 2 decades.

Environmentalists: There are many reasons for environmentalists to protest against the current government. The government is all for the environment, unless it has to spend money to do an environmental assessment. Examples of environmental issues are: Cutting old growth forests in the North that used to be protected. Incineration: the Keele valley dump can occasionally be detected by its strong odour 3 km away. Community feedback groups for a new dump location have had their budgets completely cut. "Deregulation" is to make the system more efficient. Police estimate that there were 75,000 people at the rally Saturday, organisers believe it to be 200,000. The march had enough people so that some had made it to Queen's Park, and decided to go home before the last people in the march had left the start.

Will the government listen to thousands of people?

A future strike, now under consideration, will be province-wide.

F!rosh-For-A-Day: Help Needed

by Vera Kan CIV 979

As November rolls around, what else should arrive but F!rosh-for-a-Day? (and hopefully many volunteers!) The F!rosh-for-a-Day Committee is planning for two sessions and we need your help! One session runs on Friday, November 15th and another on Friday, November 22nd to introduce high school students (pre-F!rosh!) to engineering, Skule™ and the U of T in general. These students (pre-F!rosh!) will be treated to a lab session, a lunch catered by Cora's Pizza, a campus tour and then a question-and-answer period.

Labs include a solar car lab (Sunrayce) for Mechanical/Electrical, dynamic bridge loading (Mechanical) a session with aeronautics (Eng Sci) and more! (Unfortunately, F!rosh-for-a-Day was still in its infancy for most of us when we were still pre-F!rosh. Don't you wish you got to try out some of these labs while still a high Skule™-er?)

Lab sessions, room arrangements and teaching staff arrangements have been well under way for some time, but the F!rosh-for-a-Day Committee will be needing volunteers to help out with registration, lunch and campus tours. The F!rosh-for-a-Day Committee will be holding a sign-up meeting outside the Atrium on Wednesday, November 6th. Come on out and show your Skule™ spirit! Your commitment can be as light as a single Friday morning or (though it would be great if more of you have the Skule™ spirit to sign up for a few hours more!) If you can't make it to the meeting, please get in contact with Dan at *popadyn@ecf*, Vera at *kanv@ecf*, or Becky at *smithre@ecf*! Hope to see you there!

Why Would You Decline A Scholarship?

Admission Scholarship Declinees' Survey Results Received

by Mark Ebden ENG SCI 070

The Faculty of Applied Science and Engineering distributed a scholarship questionnaire last month and the results have arrived.

The survey was sent to the approximately 100 students who declined admission scholarships to U of T Engineering for 1996-1997, of which 79 responses were received.

Several conclusions were drawn from the ten-question multiple choice survey:

Informotion

U of T is not communicating effectively to all high schools. Specifically, some students commented that information on curricula, PEY, residence, and extracurricular activities was not sufficient. U of T needs to increase its "selling" efforts, especially with out-of-town applicants. We also have a problem of quality as well as quantity: ironically more than one in seven students got the "most negative image" of U of T from the university's *own* recruitment efforts!

Reputation

It is no surprise that the dominant reason these students applied to U of T Engineering is the program's good reputation. More than four out of every five students stated they wanted to come here because they "heard that the academic program was very good". It seems Toronto Engineering is well known among serious high school students. (It should be noted that a secondary reason to come to U of T was its location.)

Co-Op vs. PEY

Remarkably, half of the students stated that *the dominant reason* they declined U of T was they were "attracted by the idea of a co-op engineering program at another university". In addition, five students took the time to comment that PEY seems inferior to regular co-op because the former provides less variety in engineering opportunities. This is a clear sign that the marketing for PEY needs to be increased.

It is interesting to note that a similar scholarship rejection survey distributed last year yielded the same results for PEY ignorance. That is why a deluge of PEY brochures was printed to inform high school students about our "special version" of co-op.

Where Are The Students Now?

Half of the surveyed students are now studying engineering at Waterloo, fifteen per cent are at Queen's, and most of the rest are scattered across Ontario. Also, one in seven is studying engineering outside the province. These numbers show that Waterloo is an overwhelmingly popular choice for engineering undergraduates, but here is another statistic: Waterloo has less than 750 first year engineers; U of T now has 825. Thus the survey may suggest that both Waterloo and U of T are attracting the best engineers.

Scholorship Money

One of the main reasons for issuing the questionnaire is that its results help to make scholarship distribution more effective (i.e., they improve the university's ability to attract talented students). Unfortunately it is difficult to summarize concisely what the survey results indicate about scholarship organization, so only a few of the conclusions will be reported here.

Many students who turned down a U of T scholarship for another engineering program accepted *less* money than the amount offered here. Also, more than 34% of the surveyed students received *no* scholarship from the university they chose over U of T.

However, many of the *top* students were lured away from Toronto by bigger scholarships. To compete with the larger scholarships offered at other institutions, U of T Engineering increased many of their larger-class awards. A significant proportion of the money allocated for U of T Engineering applicants this year was in the form of very large ($4,500 or more) scholarships; the questionnaire results verify that other universities tend to divide their scholarship money amongst *more* students.

What caused this increase in scholarship value? The results of last year's survey were the catalyst for change. After looking at the 1995 survey, the aim of the Admissions Committee was to increase the value of scholarships, but offer fewer awards. $3,000 scholarships became $5,000 ones, and other restructuring efforts were made as well.

"The next objective," explains Professor David Shaw, chair of the Admissions Committee, "is to try to increase both the number and value of the scholarships." Shaw hopes to expand both the faculty (i.e., Engineering) and the departmental (e.g., Chemical, Civil, etc.) scholarships, so that everyone benefits. It is hoped the money may be provided by the alumni.

These are the summer scholarship rejection questionnaire results. U of T Engineering is currently reacting to the feedback and preparing to ensure that the best high school students will be registered here in 1997.

The Club Reports

Indy Club

by Frederick A. Beserve INDY 9T7

The IE Club is proud to present the *Industrial Engineering 9T6-9T7 Schedule of Events.* It includes:

1) *WEDNESDAY NIGHT SMOKERS @ PLANET INDUSTRIAL* (located in the basement of the Rosebrugh Building)

These events will be held approximately every other Wednesday starting from October 2nd to the LAST DAY OF SKULE™. Our tentative schedule is as follows:

Nov. 13th Smoker #4 FoozBall (Gits) & Pool Tournament

Nov. 20th Smoker #5 CSIE member info session for the Nov. 26th event

Dec. 4th Smoker #6 Last Day of SKULE™ Smoker

Some of these smokers may be co-organized by CSIE (The Canadian Society of Industrial Engineering) and IE club. These include guest speakers who will come to talk about what Industrial Engineers do in industry. In fact, CSIE is organizing a *Wine and Cheese* with representatives from over 100 different organizations. It is exclusive to all CSIE members. So, if you're not yet a CSIE member, talk to either Dave Woloveic, Rasha Khayat, Lisa Cannistraci, or Denise Ho.

Date: Tuesday, November 26, 1996

Location: Faculty Club on Wilcox Street.

2) A possible *Winter Xcursion* up north sometime soon after midterms. We will need more time to develop this idea, but your input is greatly appreciated. Again, look for future postings for this event.

3) Finally, looking ahead to after the Winter holidays, CSIE is planning *the CSIE conference trip* to be held this year in Windsor. YOU MUST BE A CSIE MEMBER TO LEGALLY PARTAKE IN THIS TRIP. So talk to one of the CSIE reps today to learn more about it. Their location is in Planet Industrial, every day of the week. Just ask for one of the CSIE reps — one of them is bound to be there.

If you lose this schedule, or if changes are made to this schedule, look for event postings in the Engineering buildings, or for a copy of this schedule on the IE common room walls. Unless specified, this is by no means limited to only Industrials, everybody is welcome to attend. So come out and be part of the INDUSTRIAL experience.

Annual Mech/Indy Club Dinner & Dance at Club Lusso

November 15th, 1996
6 p.m.
4250 Dufferin Street
(just north of Sheppard)

Tickets $25
on sale from 12-1 p.m.
in the Atrium or from
your Mech/Indy Club
Representative

*** Dress Code***
*** Proof of age required***

ECE Club

by Michael Camarda ELEC 9T7

As mid-terms bear down, we can only look to the future, for better days of fun, frolic, and merriment. In short, the ECE Club is pleased to announce its annual Dinner Dance to be held at the Clarion Essex Hotel (300 Jarvis St., Essex Suite) on Saturday November 16, 1996. The evening promises to be a gala event, with cocktails starting at 7:00pm, followed by dinner, dancing - and a special appearance by a faculty member known for his wild exhibitions of "moshing" and Cossack dancing! Definitely not to be missed. Tickets and price info are available at the Club Office in SF640.

Aside from this, the ECE Club has refurnished the Common Room with gettone fussball (table soccer) and pool tables. Look for organized tournaments to appear some time after mid-terms.

PEY Club

There will be PEY Club meeting on November 14th at 7:00 pm in the Atrium. This is for alumni and current PEY students and we will be discussing ethics. The next PEY Club Forum will take place on Mareh 4th. Details about this second Forum will follow in a later issue.

Eng Soc is @skule

by Frederick A. Beserve INDY 9T7

Eng Soc Digital is the newest committee in the Engineering Society. Its aim is to provide information about the many facets of life in Engineering at U of T. Via the Internet, the committee is now just starting to come together under the guidance and support of Binh Ha, Colin Knowles, Paul Andersen, and Christian Bosio.

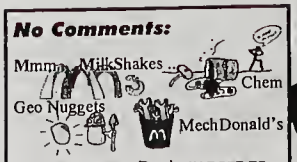
The web site will be an online publication. The goal of Eng Soc Digital is to have a wide assortment of writers, graphic artists, programmers, and others who wish to become "web-worthy". By including non-web inclined people, we hope to achieve a unique type of media.

The popularity of the web has found a home with Generation X'ers but its direction is clearly in the air. Many of the web pages currently showcased by other universities and education institutions are lacking creativity and "the personal touch." They are designed by and for people who are well versed in the language of the Internet. This site is as much a creative endeavour as it is a form of information. We hope that with the help and co-operation of club and committee chairs that we will be able to capture the spirited subculture of U of T Engineering. We want the student body to not only be represented on this page but to shape its growth through suggestions, submissions, ideas, eriticisms, etc. Since this is not going to be a traditional publication it doesn't suffer from the constraints of a monthly circulation. For example, details will be kept current.

We have already had our first meeting and we will be having another for our initial launch in late November with the site going fully online for the New Year. Our next meeting is yet to be decided but if you would like to know more about it or have any questions or comments please send e-mail to "digital@skule.ca".

We really want to make this page work and have Skule™ represented truly where it has never been before.

No Comments:



CLUB CHAIRS, DON'T FORGET TO HAND IN A REPORT FOR NEXT ISSUE!!!

Eng Sci Club

by Kern Lewin ENG SCI 9T7

The year marches on, and the EngSci hordes are right in step.

It's dinner dance season folks; time to dig out your dandiest semi-formal wear, spiff up your 'do, bribe a date and head out for the major social event of the club year. The EngSci dinner dance is on November 16th, in case you didn't already know, and tickets are $35 apiece (and worth every last crusty penny!). And to unwind in these days of pre-dinner dance anticipation, we're having a Paintball trip on November 10th. Details and sign-up sheet in the EngSci common room.

And while I have this opportunity, I'd like to sincerely thank Lammiel the mewling aardvark for his inspirational support.

Next smoker: Wednesday, November 27th. Be there, or perish from infernal boredom.

Civ Club

by Andred Boddy CIV 9T7

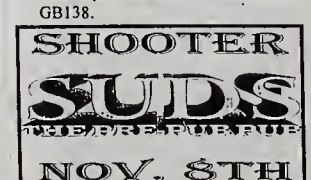
Civil Club has two great events that we'd like you to know about:

1) Coffee House Smoker on November 8th, 5:00 pm. It will be held in the CIV Common Room (4th floor of GB) it's Open Mike Night. You can sing, play guitar, do standup comedy or whatever strikes your fancy!

Come out and enjoy the entertainment, a variety of beverages (beer, wine, espresso, cappuccino and more) and food! The Sign-up List for entertainers is at the CIV Club office, GB 138.

2) CIV Dinner on November 15th at the Pavilion Royale

This year, the CIV Dinner is an open-bar, 4 course meal special with an unlimited pasta plate. It is being held at the Pavilion Royale (at Dixie and Eglinton in Missisauga.) Tickets are $45 each and are available from CIV Club reps from the CIV Club office, GB138.



EngSoc! Annual Gen. Meeting Attendees

OFFICERS

President	Franny Jewett
V.P. External	Lucy Pegoraro
V.P. Finance	Drago Banovic
V.P. Activities	Savio Rodrigues
V.P. Internal	Binh Ha

EXECUTIVES

Civil Club Co-Chair	Andrea Boddy
Geo Club	Spyros Tryphonopoulos
Mech Club Chair	Vince Luciani
Indy Club Co-Chair	Aldo Angel
Eng. Sci. Club	Kern Lewin
Chem Club Co-Chair	Sylvia Squair
Blue and Gold	Steve Dennis
Social Co-Chair	Steve Rouatt
Social Co-Chair	Jeremy Wohleber
Employment	Anne Eto
HS Liaison Co-Chair	Dan Popadynec
Communications	Christian Bosio
EAA	Gord Bennett
Exec. Fac. Council Rep.	Paul Westergaard
Exec. SAC Rep.	Danny Martin
PEY Co.	Kamran Bahrami

APPOINTED POSITIONS

Ads Co-Manager	Christen Taylor
Ads Co-Manager	Paul Andersen
Suds Managers	Alex Paradi
	Joe McNamara
LGMB Leedur	Mike Paiero
Skule Nite Co-Producer	Trevor Mills
Toike Editor-in-Chief	Colin Knowles
Cannon Editor	Albert Lee
Cannon Assistant Editor	Karen Virk
Handbook Editor	J Ryan Morris
Comp. Systems Admin.	Jacqueline Chan
Orient. Comm. Chair	Savio Rodrigues
Charities	Heather White
Project Magazine	Lucy Bahoudian
Speaker	Thaddeus Nettleton
SAC Rep	Felix Tang
Gradiude 9T7	Isabelle, John
CESA	Dennis Ko
	Sally Atalla
Eng.Soc. Digital	Fred Beserve

CLASS REPS 4TH YEAR

Civ Eng.Soc. Faculty Council	Phoebe Ai-Chen Fu
Geo Eng.Soc.	Shimon Deutsch
Mech Eng.Soc. Faculty Council	Richard Gray
Ind Eng.Soc.	Nick Itsou
Eng Sci Faculty Council	Peter Reisl
Chem Eng.Soc.	Fred Beserve
Comp Eng.Soc. Faculty Council	Jack Bennell
	Gail Tennant
	Peter Iwasa
	Qiuguo Pan

CLASS REPS 3RD YEAR

Civ Eng.Soc. Faculty Council	Steve Dennis
Geo Eng.Soc.	Julie Garvin
Ind Eng.Soc. Faculty Council	Olga Kosarewich
Chem Eng.Soc Faculty Council	Jennifer Yu
Elec Eng.Soc. Faculty Council	Drew Baillie
Comp Eng.Soc.	Lianne Ing
	Emerlyne Aung
	Jennifer Stephenson
	Anthony Grbic
	Phillip Young

CLASS REPS 2ND YEAR

Civ Faculty Council	Vera Kan
Geo Eng.Soc. Faculty Council	Heather White
Mech Eng.Soc. Faculty Council	Jacob Hanley
Ind Eng.Soc. Faculty Council	Donald Ela
Eng.Sci. Eng.Soc. Faculty Council	Kurt Monteiro
Elec Eng.Soc.	Kelly Duffin
MMS Eng.Soc. Faculty Council	Elfreda Lau
Comp Eng.Soc.	Phillip Ferguson
	Felix Tang
	J. Ryan Morris
	Oliver Calderon
	Robert Moreland
	John Oh

CLASS REPS 1ST YEAR

Group A Eng.Soc. Faculty Council	Raffy Turla
Group B Eng.Soc. Faculty Council	Dwayne Shirley
Group D Eng.Soc. Faculty Council	Anthony DiBattista
Group E Faculty Council	David Preiss
Group F Eng.Soc.	Richard MacIntosh
	Paul Sehr
	Nasecm Husain
	David de Jonge van der Halen
Group G Eng.Soc.	Ayesha Rollinsen
Group H Eng.Soc.	Stephen Tozer
Eng Sci 1 Eng.Soc. Faculty Council	Bartek Wozniak
Eng Sci 2 Eng.Soc. Faculty Council	Mark Ebden
	Vedran Miletic
	Paul Leventis

EngSoc Reports

The Prez Report

by Franny Jewett CIV 9T7

We are well on our way to achieving three more goals of our Society.

1. The Oral Communication course has started and is very successful. Check out the article "Are You Lacking Communication Skills?" on page 4 for more information.

2. A proposal to publish the professor evaluations has received endorsement by the Faculty (who are being very helpful getting this project off the ground). The idea behind publishing professor evaluations came from the Executive of Engineering Society last summer. They believe the publication of the evaluations will help promote a consistently high level of teaching within our Faculty. It will be similar to the Arts and Science Anti-Calendar, except that it will appear in the Cannon at the end of each term. We will publish results from the instructor evaluation forms including comments for those professors who consent to the release of their results. In addition, the names of the professors who do not agree will also be listed. The first printing will be in the January issue!

3. We have held the first of our open forums for the assessment of the Engineering Society. The reason for this assessment is that student participation rates are dismally low. What's wrong? You all pay $35 to the Society at the start of each year so why aren't you making use of it? What do you want? Should the Society exist? We have tried to get some answers to these questions and some of our initial feedback includes not enough musical variety at events (especially SUDS), not enough events information to the students, and not enough time because of the school work load. Some new events which have been suggested are a chess tournament and dragon boat racing. If you have any suggestions or comments please contact me (Franny) at the Engineering Society (978-2917) or you can send me e-mail at *jewett@ecf.utoronto.ca.*

VP External Update

by Lucy Pegoraro INDY 9T8

October has been a very busy time for the Engineering Society. On an "External" level, everything is looking very optimistic. Firstly, the Faculty of Engineering hosted the annual OESP (Ontario Engineering Society Presidents') Conference that Presidents and VP Externals attend. Franny and I planned the conference, and it was a great success! We talked about a lot of relevant issues, including "The Future of Engineering Societies", and "Leadership".

Secondly, the Engineering Student Societies Council of Ontario (ESSCO) has also been very active for the past month. At an Engineering Society Executive Council meeting last month, we discussed people's opinions about the cutbacks. These views will be compiled with other universities across Ontario and the Minister of Education will be approached by ESSCO. We will present a "UNITED FRONT" to the Ontario Government about engineering students' views and opinions regarding this important issue facing us.

Lastly, there is one item to note on an internal level. The results from the Summer Job Questionnaires that were filled out early last month will be made available in the Cannon sometime next year.

Hope all is going well for everyone! I sure hope midterms are going well (why wouldn't they be — lack of sleep, cramming?) As Homer Simpson would say — DOH!! Oh well, good luck and hope to see you sane and involved in Eng Soc events after the intense "jam session" with academics.

From the VP Internal

by Binh Y. Ha ELEC 9T8

Just to keep you up to date with what's been going on in Eng Soc...

On October 29th, we held our Annual General Meeting where changes to the constitution are passed and other details of the Engineering Society are reviewed (including the budget and spending on the levy fund.) Welcome to our new executive members: GRADitute Chairs: John, Isabella; our new Social Co-Chair: Jeremy Wohleber; and our new First Year Chair: Steve! Thank you to all those devoted council members who attended the meeting even during the hectic midterm season. If you would like to see the changes to the constitution or would like to know what was discussed at the meeting, please e-mail me at *habinh@ecf. (You can check the lead story of this month's Cannon — ed.)*

This month, things are moving along in Eng Soc. A new photocopier is available for student use in Eng Soc at a cost of $0.10 a page and there are several PC's in Eng Soc available for academic use. Plus, if you're hungry, a toaster oven purchased during the summer is also there for student use.

A substantial amount of time and money has been spent on fixing up the office and buying new equipment so that students can get the most use out of it. Please respect the Eng. Soc. office—after all it is *your* Engineering Society.

Keep your eyes out for a big Food Drive that will be running this month to help support our local food banks. Fun tournaments such as Jenga, Dominos, and Chess are also in the works!

VP Activities Update

by Savio Rodrigues MECH 9T8

Here is an activity which I feel everyone should attend. There will be a Remembrance Day Memorial Service held on Monday, November 11 at 10:25 a.m. at the Soldiers Tower. The purpose of this Service is not to glorify war, but rather, to remember with gratitude, the large numbers of volunteers from the University of Toronto who paid the supreme sacrifice in the two world wars. They had many motives for volunteering, but the bottom line for each of them was willingness to give up their lives for what they considered to be more valuable than life itself.

I recently had a meeting with student leaders from across campus and several members of the Soldier's Tower Committee. At the meeting, the members of the Soldier's Tower Committee, most of who are war veterans, explained what Remembrance Day meant to them. I must say, it made me think about the sacrifice that was made by the men and women who served in the two world wars, so that all of us could live in peace and enjoy freedom.

It seems that every year we hear that Remembrance Day is being gradually forgotten. The younger generation seems to be ignorant or even indifferent towards Remembrance Day. It is my hope, and the hope of the Engineering Society that if the students have the time slot open and are encouraged to attend the service and hear some of the stories, maybe they won't be so ignorant or indifferent any more.

A request has been made to the chairs of every department to cancel class from 10:00 a.m. to 12:00 p.m. on Monday, November 11. Hopefully the request will be granted. If so, I strongly encourage all of you to attend the service at Soldier's Tower, which is attached to Hart House. And if classes aren't canceled, *skip them*!!

Yeah, you read it right! Frankly, I think that learning about Euclidean nth Space, or cash flow diagrams, or even the compatibility of soil is a little less important than paying tribute to the men and women who gave their lives so that you could be free today. Oh yeah, if classes are canceled and you decide that you have better things to do instead of going to the service, then you're a fuck head. Where would you be today if those who gave their lives for our freedom had decided that they had "something better or more important to do"?

Please do not let Remembrance Day become a day which becomes forgotten.

From the VP Finance

by Drago 'Puff' Banovic COMP 9T8

To everyone in the Engineering Society who is wondering about our finances, I just want to say that I have nothing to report— literally — there is nothing left. On the bright side, I am receiving the equipment requests by the club chairs and each discipline. Hopefully they will be completed and approved by the end of the month. All the clubs have handed in their constitutions and thus received the first installment of their club grants. The second installment will be sent in the spring.

With respect to a letter in last issue's Cannon (October 4th) criticizing the F!rosh Kits, I believe it's my responsibility to explain what the "deal" about the kit really was. On the surface it seems that you (the F!rosh) received very little, but when you think of all the free food at the Hart House, the charity event, and the pizza at Suds, the ticket to F!rosh Nite, your T-shirts (SAC & Engineering), your hardhat and your SAC hat, you got a lot. If you participated, F!rosh week was a full week of events. The rest of the money from your Kit is distributed throughout your first year which includes a yearbook, the F!rosh handbook, a Skule™ Nite ticket and your Gradball investment. (These funds are held in trust until your graduation and is spent subsidizing the hall and its open bar).

So in judging your F!rosh kit, remember the idea behind the kit is not to make money (we lose $53) but to help you ease into university life and learn about the different events and things around our beloved Skule™. I purchased a F!rosh Kit in my first year and I am happy with it to this day.

EngSoc! Annual Gen. Meeting Absentees

EXECUTIVES

Civil Club Co-Chair	Constance Scott*
Indy Club Co-Chair	*Errol Cerit**
Chem Club Co-Chair	Dave Dubins*
Elec Club	James Maligeorgos
MMS Club	Lucy Bahoudian*
Comp Club	Anthony Lacavera
4th Year Committee Co	Tanya Lindsay*
High School Liaison Co	Rebecca Smith*
1st Year Committee	Steve Aquino
Prof. Dev't Co-Chair	Anjan Nayani*
Prof. Dev't Co-Chair	André Taylor*
Women's Issues	Allison Brown
PEY Co-Chair	Sergio Rattner*

APPOINTED POSITIONS

Stores Manager	Alex Ross
Archivist	Paul So
Yearbook Editor	Ching Yi Choo
Handbook Editor	Tara Weinstein*
Skule™ Stage Band	J.C. Herrington

CLASS REPS 4TH YEAR

Geo Faculty Council	Natalie Jetté
Indy Faculty Council	Lisa Cannistraci
Eng Sci Eng Soc	Idene Allaran
Chem Faculty Council	John Khajadourian
Elec Eng Soc. Faculty Council	Giovanni Costantiello Michael Canarda
MMS Eng Soc Faculty Council	Lucy Bahoudian Farouk Mohamed*

CLASS REPS 3RD YEAR

Geo Faculty Council	Stefan Ioannou
Mech Eng Soc Faculty Council	Duncan Scholtz Jonathan Friedman
Eng Sci Eng Soc Faculty Council	Rebecca Smith Howard Feldman
MMS Eng Soc Faculty Council	Priyen Tanna Sachin Ghai
Comp Faculty Council	Raymond Chan*

CLASS REPS 2ND YEAR

Civ Eng Soc.	Paul John Ungoed
Chem Eng Soc. Faculty Council	Shantanu Verma Claire Corinthios*
Elec Faculty Council	Jovan King
Comp Faculty Council	Chris Chaggares*

CLASS REPS 1ST YEAR

Group C Eng Soc Faculty Council	Steven Aquino Benjamin Whitney
Group E Eng Soc	Ben Dehghan*
Group F Faculty Council	David Jack
Group G Faculty Council	Vaughan Koch*
Group H Faculty Council	Jasper Li

* These people had valid excuses for not attending

Career Trends

By Terry Johnston, Engineering Liaison Coordinator

It shall now be known as the Quadruple - prize winning Lady Godiva Memorial Band (they won $1007 from the @107 opening of the Jesse And Gene Way as the best Marching Band last October 31st).

Electronic Resumés

To succeed in your Job seareh in the information age, you will need to add an electronic resumé to your traditional job seareh tools. In preparing your electronic resumé you need to consider a number of issues including:

• Finding out whether the employers to whom you are applying accept them. When contacting potential employers, find out if they are capable or willing to accept electronic resumés. Many organizations are beginning to accept e-mail from potential employees, while others can't or don't want to handle the volume of inquiries that may come in through this medium.

• *What format the employers accept for electronic resumes.* In preparing your electronic resumé, test it out by sending it to a friend to see how it looks when it is sent out to others.

• *What security concerns you should have.* While some students have developed a healthy fear that of losing their privacy from an electronic resumé, others are not aware of possible consequences of ignoring security. Remember, once you have posted your resumé, consider it a public document and out of your control. Instead of putting your home address on the resumé, list your e-mail address. You might also want to consider renting a post office box and a voice mail account during your job search.

• Many resumés are now sorted and ranked by the number of keywords (nouns that describe skills, education, experience, or characteristics) found in them. Include memberships, words that appeared in the ad that you responded to, and specify the skills you have. Minimize general abbreviations and include industry jargon.

Covering Letters

If you stop and consider that many employers base a decision on whether a.) to read your resumé and b.) to contact you for an interview on a ten second read of your covering letter, its importance becomes clear.

As a covering letter is often that first impression that an employer gets of you and your skills, a resumé should never be sent out without one. The covering letter is your chance to highlight your skills and make the link between your resumé and the employers expressed needs.

You need to tell an employer a couple of things in a covering letter. First, let them know why you are writing. Are you applying to an advertised position or are you sending a speculative letter? Second, and most importantly, let the employer know what your skills are as related to their needs. Make sure you are highlighting the skills that are most important to that particular employer. Talk about any specific knowledge that you have of the job requirements and make sure to mention both your technical and transferable skills.

An often overlooked part of any good covering letter is the paragraph where you relate to the employer your knowledge of their organization or the industry within which they operate. Imagine yourself as an employer looking at two prospective employees who are equal in all respects according to their resumés. The only difference is that one of these prospective employees has a knowledge of your business or industry and has talked about it in their covering letter. Which of these people would you call for an interview?

It takes time to personalize covering letters to each of the organizations to which you are applying. With a little time and practice, however, you can put together covering letters that are both original and interesting. Don't forget, many of those companies to which you are applying will be getting stacks of resumés. So take the time to put together a winning covering letter and make your application stand out from the others.

If you need further information on how to put together a covering letter, visit the Career Centre and sign-up for one of our Resumé and Covering Letter seminars or check out one of the 'how-to' books in our Resource Library. Once you have a covering letter don't forget to have it critiqued at the Career Centre's Resumé Clinic.

The Engineering Liaison Office was created in 1985 to market the benefits of hiring University of Toronto engineers and to promote the services of the Career Centre to engineering employers.

Contacts:
Terry Johnston
Engineering Liaison Coordinator
Phone: (416) 978-8022

Anne Eto
Employment Committee Chair
Phone: (416) 978-2917

E-mail: *career@ecf.utoronto.ca*
Visit the Career Centre's web site at *http://www.utoronto.ca/uofi.html*

Info From The Office of the Registrar

Student Record Web-based Self-Service

This pilot projeet is intended for U of T students and provides aceess to certain parts of their university records. Access presently available:

1. Change your PIN
2. Display your Telephone Activity Log
3. Disply the addresses which the university has on file for you
4. Update your sessional address
5. Update your permanent address

The address to access the above information is: *http://stuart.utoronto.ca/*

Important Dates Coming Up:

Re: EXAMS!!!

Last day for withdrawal from the Fall Term without academic penalty
November 8
Last day of lectures in Fall Term. All term work should be submitted by this date.
December 4
Exams!!!
December 6 - December 19
Note: Examinations in courses offered in other Facultics may be held outside this period.

Re: PEY!!!

Review of Applieations for PEY positions
November 14
Return of Applications submitted on November 14
November 19
Feedback on Applieations requiring improvement (6 - 7 p.m. in the PEY Office)
November 21

Photo ID Replacements

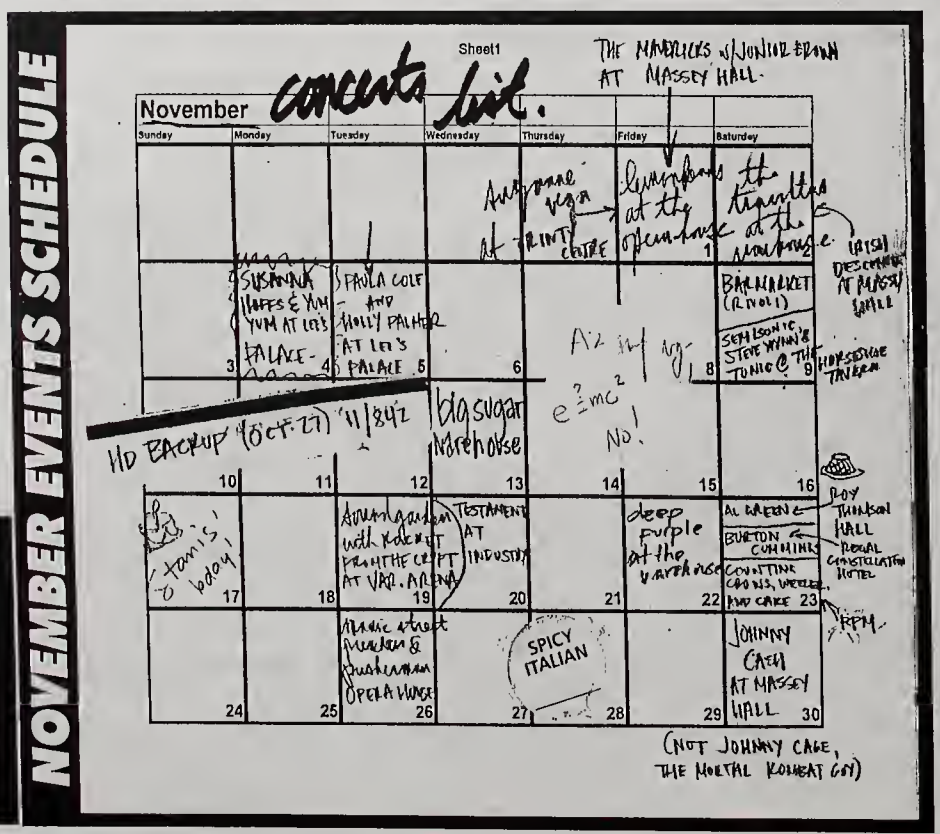
Replacements for Photo ID's are available in the Registrar's Office on Tuesdays from 10 - 12 p.m. and Thursdays from 2 - 4 p.m.

Lost and Found

Found something? Lost something? The Registrar's Office has a lost and found box.

Don't forget ...

Do you have a general registrarial question? You can e-mail the Registrar's Office at *askus@ecf.utoranta.ca*



Philosophy & Arts

Really Rushed Reflections

by Aldona Wiacek ENG SCI 9T9

That horrible noise announces the start of another day. You pound it into silence as usual. Too tired to learn. Must try anyways. (Must eat better and work out more often.) Show up to class, settle in, take notes, let the mind wander, snap out of it, realize you're lost, make a valiant effort to understand without coming across as a moron. Rotate rooms, repeat, repeat. Refresh on coffee. Focus! "Control, control, control... you must learn control!"

Make a sub connection as you solemnly vow to eat better, starting tomorrow. "Relax." Ok - 10 minutes is up. Time for the laboratory component. Can't make your circuit work. Realize your board is not turned on. Hit yourself. Make cool patterns appear on your oscilloscope. Wonder about how you would appear to aliens observing you from orbit. Wonder why that car is stopping so close to you with a screeching sound. Wonder why the trees are dead and the wind is applying a deadly moment to your upper body and the squirrels are so fat. Wonder about the bliss of hibernation. Wonder why the vegetables you're eating smell the way they do. Wonder if they are really vegetables. Wonder why you can't see the floor in your room. Wonder why you are doing all the work you're doing. Wonder why you're really not getting much done. Realize that $s^2 + 2s + 1$ is NOT an irreducible quadratic and hence it CAN be factored. Sickened, throw your book down. Pick it up, check the damage. Reassess its resale value. Pet it affectionately and apologize to it in a sweet voice. Try another question, get it right, declare your divinity and retire for the night.

You remember about the package your parents dropped off as an afterthought. You pick it up, pull out the binder you asked for, and realize that there's more in the bag. A week's supply of fresh fruit. A bag of chocolate chip cookies. About 2 pounds of your favourite brand of chocolate. Never having seen you this happy in the middle of the week, your roommate asks what's wrong... Skipping to bed you answer: "My mom loves me!"

Not Just Black and White

by Ilan Kelman ENG SCI 9T6 + M

On February 28, 1986 on a quiet Stockholm street, a man returning home from the cinema with his wife was approached by a stranger. The stranger said nothing, but fired two shots from a .357 magnum Smith and Wesson handgun at close range and then disappeared, never to be caught. The shot man collapsed, bleeding profusely, and despite the efforts of witnesses passed away.

The world's headlines would probably not have thought this event so remarkable if the victim had not been Olaf Palme, the Prime Minister of Sweden. Although Swedish police soon concluded that "an organization" was likely responsible, Mr. Palme's continual criticism of South African apartheid and his strong push towards sanctions did not appear to be high on the agenda of possible motives.

Ten and a half years later, Mr. Palme's assassination has again been making headlines and this time, the Swedes are looking deep into the other hemisphere for interpretation. While the connection between these two countries is tenuous—they are virtual neighbours in the United Nations, but their histories and cultures are as dissimilar as their climates—it is really not too strange that they are brought together by a senseless killing.

Killing has marked South Africa more than Sweden in recent times, and the South Africans are surely suffering more from the continual allegations of torture and murder than their northern cousins. These horrors of apartheid are emanating from the Truth and Reconciliation Commission which, despite its ominously Robespierrien title, has attended to the essential task of healing. South Africa will never recover completely, but finally the wounds which rent deeply can be permitted to scar.

'Tis oft disconcerting to expose the Machiavellian mask under which this nation has hid for so long. The limitless veldt supported its people in chains and the landscapes bewitching in their beauty harboured a grotesque hierarchy of citizenship. Pernicious wars characterized the mountains and valleys of South Africa as much as the dark tempests. These wars were for peace, justice, equality, revenge, blood, and terror. They perpetuated the injustice they wished to redress.

These wars are now revealed before the Commission. For a society unused to overt displays of personal emotion, the stories surpass the breaking point. The intensity and loss reek of unmitigable sorrow and grief are far beyond that which can be neatly typed in a book, yet nevertheless are reminiscent of *Cry Freedom* and *Cry, The Beloved Country*. And what is it about this nation that make tears so prominent throughout the literature?

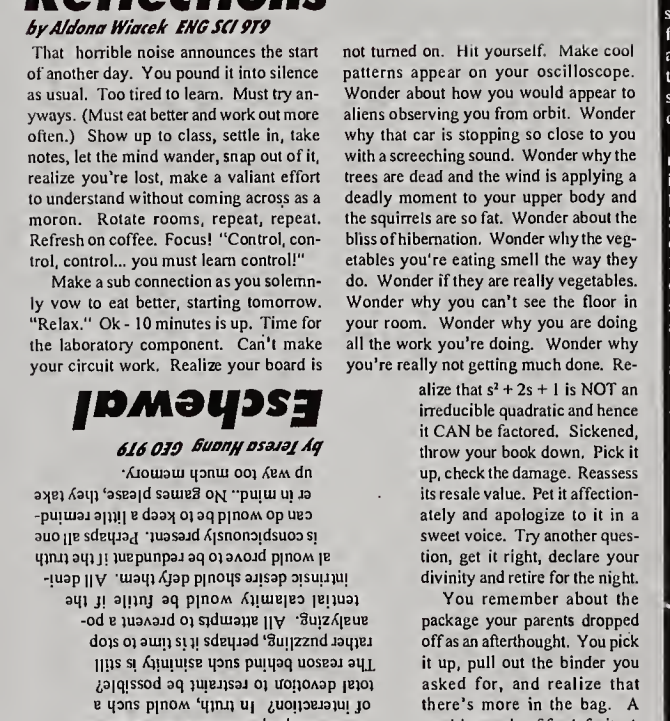
Stories, like wars, have heroes. Should we speak of F.W. de Klerk and Nelson Mandela? Mangosuthu Buthelezi, Chris Hani, Joe Slovo, Winnie Mandela, Oliver Tambo, Walter Sisulu, and Govan Mbeki? They are all essentially killers. And where would we place Albie Sachs, Desmond Tutu, Nadine Gordimer, Trevor Huddleston, the citizens of the Frontline States, and the 68.7% of white voters who used March 17, 1992 to yield their privileged status? Too often, heroism is synonymous with terrorism while suffering and courage are ignored.

The current government went from nonviolence to shredding bones with bombs. The former government implemented a myriad of international espionage and assassination. Which brings us back to Mr. Palme's death. In the end, it is quite irrelevant which superspy or special forces soldier is veracious, because the point has been made. The struggles of South Africa empowered all parties to purport ethereal justifications for enacting hellish abuses. It is almost ironic that three days after Mr. Palme's death, seven A.N.C. guerillas were killed in a police ambush while on their way to ambush police.

But to their credit, the factions have finally joined together to forge a new nation and they now seek Truth and Reconciliation under the auspices of the Commission. They might actually find that for which they search, but there will be a price. In blood, in tears, in painstaking and painful introspection, and in liberating daemons for whom no reprieve was supposed to exist. The fervent hope is that the rainbow which is now South Africa will pay what is asked, thereby emulating its meterological counterpart in representing the transition from tumult to peace.

Eschewal

by Teresa Huang GEO 9T9



Ode to my Green-eyed Lady

by Hanif Vali COMP 9T8

Where do I begin, my green-eyed lady,
To even describe how much thy beauty,
Fills me with joy, yet fills me with tears,
And fills me with love, yet also with fears,
That you shall never know, how much I love thee

Your green eyes are the colour, of enchanted forests,
Deep within which, lurk glories and stories,
Tales waiting to be told, of your heart and your soul,
And tales already told, of old laughter and dole,
And I too have a tale to tell, of how much I love thee

I would cross the seven seas, and cross seven more,
Only to drown in the green oceans of your eyes,
And I would climb seven mountains, and climb seven again,
But to clasp your soft hands, and hold them in mine,
So why do I not tell thee, how much I love thee?

Your beautiful eyes are green gems, and green stems,
Upon which perches the rose of your lovely face,
And your eyes are green emeralds, but infinitely lovelier,
For jewels do not sparkle, with joy or with laughter,
Nor do they whisper:
"If you tell me, I too shall tell thee, how much I love thee"

Your green eyes are the colour, of spring eternal,
Of placid green lakes, that soothe and refresh,
Your eyes are green fire, they light my dark nights,
I burn with desire, and die slowly in their hot light,
And I yearn with desire to tell thee, how much I love thee

But I fear your green eyes, will freeze to green ice,
If ever I tell thee how much I love thee,
And I fear your green light, will stop burning bright,
If ever I tell thee how much I love thee,
And I know now, that I can never tell thee, how much I love thee

THE FACULTY OF APPLIED SCIENCE AND ENGINEERING

ALL EXAMINATIONS LAST 2.5 HOURS.

FOR ALL THE EXAMINATIONS, PERMISSIBLE AIOS ARE PEN ANO PENCIL, A BILINGUAL OICTIONARY, ORAFTING INSTRUMENTS AND, IF PERMITTEO, AN ELECTRONIC CALCULATOR (SEE BELOW), WITHOUT THEIR CARRYING CASES.

UNLESS SPECIFICALLY PROHIBITEO, THE USE OF CERTAIN TYPES OF NON-PRINTING, SILENT, SELF-POWERED ELECTRONIC CALCULATORS IS PERMITTEO IN ALL EXAMINATIONS. THERE ARE RESTRICTIONS ON THE KINOS OF CALCULATORS PERMITTEO. FOR COMPLETE INFORMATION SEE "INSTRUCTIONS FOR THE GUIOANCE OF CANOIDATES DURING EXAMINATIONS" POSTEO OUTSIOE THE FACULTY OFFICE.

A: FOR THOSE EXAMINATIONS MARKED "A" ON THE TIMETABLE, A CANDIOATE MAY NOT BRING ANY AIOS OTHER THAN THOSE LISTEO ABOVE.

B: FOR THOSE EXAMINATIONS MARKEO "B" ON THE TIMETABLE, A CANOIOATE MAY NOT BRING ANY AIOS OTHER THAN THOSE LISTEO ABOVE. SEPARATE AIOS OR OATA, AS SPECIFIED AT THE TOP OF THE EXAMINATION PAPER, ARE PROVIOEO BY THE EXAMINER FOR OISTRIBUTION TO THE CANDIOATES BY THE REGISTRAR OF THE FACULTY.

C: FOR THOSE EXAMINATIONS MARKEO "C" ON THE TIMETABLE, A CANOIOATE MAY BRING TO THE EXAMINATION ANO USE A SINGLE AIO SHEET, PREPAREO BY THE CANDIOATE ON THE STANOARO FORM PROVIOEO BY THE LECTURER.

O: FOR THOSE EXAMINATIONS MARKEO "D" ON THE TIMETABLE, A CANDIDATE MAY BRING TO THE EXAMINATION AND USE SUCH BOOKS, NOTES OR OTHER PRINTED OR WRITTEN MATERIAL AS MAY BE SPECIFIED BY THE EXAMINER.

X: FOR THOSE EXAMINATIONS MARKEO "X" IN THE TIMETABLE, ANO ONLY THOSE, A CANDIOATE MAY BRING INTO THE EXAMINATION ROOM ANO USE ANY BOOKS, NOTES, OR OTHER PRINTEO OR WRITTEN MATERIAL FOR HIS OR HER USE ONLY.

STUOENTS SHOULO CONSULT THE "SEATING LISTS" POSTEO OUTSIOE THE FACULTY OFFICE GALBRAITH 157 AS WELL AS AVAILABLE THROUGH ECF BY OPENING THE FILE "ExamSeatingList" IN THE /usr/copy OIRECTORY. TO OETERMINE THE LOCATION ANO SEATING FOR EXAMINATIONS.

STUOENTS WRITING ARTS ANO SCIENCE EXAMINATIONS WILL WRITE AT THE TIME ANO PLACE DESIGNATED ON THE ARTS ANO SCIENCE EXAMINATION TIMETABLE.

THOSE STUOENTS WITH EXAMINATION CLASHES MUST REPORT THEM TO THE OFFICE OF THE REGISTRAR, GALBRAITH 157, PRIOR TO OEC. 4, 1996.

MISREADING THE TIMETABLE WILL NOT BE ACCEPTEO AS A REASON FOR FAILING TO ATTENO AN EXAMINATION.

CHECK THE TIME OF DAY AS WELL AS THE DATE FOR EACH EXAMINATION. OO NOT ASSUME THAT THERE IS ANY FIXEO "PATTERN" BETWEEN SERIES OF COURSE NUMBERS ANO THE TIME OF OAY FOR THE EXAMINATION.

THE TIMETABLE CAN BE ACCESSED THROUGH ECF BY OPENING THE FILE "ExamTimetable" IN THE /usr/copy OIRECTORY.

FINAL EXAMINATION TIMETABLE - FALL 1996

Type	Course Code & Description		Date			Time	
D	AER301F	DYNAMICS	MON.	DEC.	9	2:00	P.M.
A	AER305F	FLUID MECHANICS	THR.	DEC.	12	9:30	A.M.
X	AER402F	ATMOSPHERIC FLIGHT	MON.	DEC.	16	9:30	A.M.
D	AER410F	GASDYNAMICS	THR.	DEC.	12	9:30	A.M.
C	AER415F	FUND.OF LASERS &PHOT	TUE.	DEC.	10	9:30	A.M.
A	APM288F	DIFF EQUATIONS I	THR.	DEC.	12	9:30	A.M.
A	APM291F	DIFFERENT. EQUATIONS	MON.	DEC.	16	9:30	A.M.
C	APM384F	PART.DIFFERENT.EQUA.	THR.	DEC.	19	2:00	P.M.
A	APS103F	ENG.SOCIETY & ENVIR.	WED.	DEC.	11	9:30	A.M.
A	APS105F	COMPUTER FUNDAMENTAL	MON.	DEC.	9	9:30	A.M.
A	APS106F	FUNDAMENT.OF COMPUT.	MON.	DEC.	9	9:30	A.M.
X	APS107F	INTRO.TO COMP.FUND	MON.	DEC.	9	9:30	A.M.
A	APS185F	TECH.WRIT.IN ENGLISH	TUE.	DEC.	10	2:00	P.M.
A	APS186F	WRIT.AS EFFECT.COMM.	WED.	DEC.	11	9:30	A.M.
X	APS232F	ENTREPRE.& SMALL BUS	MON.	DEC.	9	2:00	P.M.
A	APS302F	ENG.SOCIETY & ENV.II	THR.	DEC.	19	2:00	P.M.
C	BME595F	BIOSYSTEMS IV	MON.	DEC.	9	9:30	A.M.
A	CHE112F	CHEMISTRY	MON.	DEC.	9	9:30	A.M.
A	CHE150F	CHEMISTRY	WED.	DEC.	18	2:00	P.M.
B	CHE200F	APPLIED CHEMISTRY I	FRI.	DEC.	6	2:00	P.M.
A	CHE203F	APPLIED CHEMISTRY II	WED.	DEC.	18	9:30	A.M.
D	CHE211F	FLUID MECHANICS	MON.	DEC.	16	9:30	A.M.
C	CHE221F	CAL.& NUM. METHODS	THR.	DEC.	12	9:30	A.M.
C	CHE311F	SEPARATION PROCESSES	TUE.	DEC.	10	9:30	A.M.
C	CHE321F	APP.DIFFERENT.EQUAT.	THR.	DEC.	12	9:30	A.M.
C	CHE331F	THERMODYNAMICS II	THR.	DEC.	19	9:30	A.M.
C	CHE332F	REACTION KINETICS	TUE.	DEC.	17	9:30	A.M.
X	CHE349F	ENG. ECONOMIC ANAL.	MON.	DEC.	16	9:30	A.M.
C	CHE372F	THERM.&REACT.KINETIC	WED.	DEC.	11	9:30	A.M.
D	CHE390F	ENVIRONMENTAL CHEM.I	MON.	DEC.	9	9:30	A.M.
D	CHE412F	ADV. REACTOR DESIGN	MON.	DEC.	9	9:30	A.M.
A	CHE463F	POLYMER SCI. & ENG.	FRI.	DEC.	6	2:00	P.M.
A	CHE466F	BIOPROCESS ENGINEER.	FRI.	DEC.	13	2:00	P.M.
D	CHE468F	NUCLEAR ENGINEERING	WED.	DEC.	18	9:30	A.M.
C	CHE490F	BIOSYSTEMS III	THR.	DEC.	19	2:00	P.M.
A	CHE492F	ENVIRON.ANALYT.CHEM.	TUE.	DEC.	10	9:30	A.M.
D	CHE553F	ELECTROCHEMISTRY	MON.	DEC.	9	2:00	P.M.
A	CIV101F	STRUCT.MAT.& DESIGN	FRI.	DEC.	6	9:30	A.M.
D	CIV102F	STRUCT. & MATERIALS	WED.	DEC.	11	9:30	A.M.
C	CIV210F	SOLID MECHANICS I	MON.	DEC.	16	2:00	P.M.
A	CIV255F	SURVEYING	WED.	DEC.	18	2:00	P.M.
A	CIV261F	ENGINEERING MATH.I	THR.	DEC.	19	2:00	P.M.
X	CIV310F	STRUCTURAL ANALYS.I	WED.	DEC.	11	2:00	P.M.
D	CIV312F	STEEL& TIMBER DESIGN	MON.	DEC.	16	2:00	P.M.
A	CIV321F	GEOMECHANICS	FRI.	DEC.	6	2:00	P.M.
A	CIV331F	TRANSPORT I - DESIGN	WED.	DEC.	18	2:00	P.M.
A	CIV339F	ENVIRONMENTAL ENG.I	FRI.	DEC.	13	2:00	P.M.
D	CIV416F	REINF CONCRETE II	MON.	DEC.	9	2:00	P.M.
A	CIV420F	CONSTRUCTION ENG	FRI.	DEC.	13	2:00	P.M.
A	CIV465F	AQEOUS POLL.& CONT.	WED.	DEC.	11	2:00	P.M.
D	CIV514F	CONCRETE CONSTRUCT.	FRI.	DEC.	6	2:00	P.M.
X	CIV519F	STRUCTURAL ANA. II	THR.	DEC.	12	9:30	A.M.
A	CIV524F	ROCK MECHANICS	MON.	DEC.	16	2:00	P.M.
A	CIV531F	TRANSPORT III- PLANN	MON.	DEC.	16	9:30	A.M.
A	CIV540F	ENVIRON. ENG.III	WED.	DEC.	11	2:00	P.M.
X	CIV549F	GROUNDWATER	THR.	DEC.	19	2:00	P.M.
C	CIV550F	WATER RESOURCES ENG.	TUE.	DEC.	17	2:00	P.M.
A	CIV575F	BUILDING SCIENCE	WED.	DEC.	18	2:00	P.M.
C	CSC180F	COMPUTER PROGRAMMING	FRI.	DEC.	6	2:00	P.M.
C	CSC181F	INT.TO COMP.PROGRAM.	FRI.	DEC.	6	2:00	P.M.
C	CSC326F	PROGRAMMIN.LANGUAGES	WED.	DEC.	11	2:00	P.M.
A	CSC442F	SOFTWARE ENGINEERING	MON.	DEC.	16	9:30	A.M.
X	CSC470F	COMP.SYS.MODEL.& ANA	THR.	DEC.	19	2:00	P.M.
C	ECE212F	CIRCUIT THEORY	TUE.	DEC.	17	9:30	A.M.
D	ECE241F	DIGITAL SYSTEMS	TUE.	DEC.	10	2:00	P.M.
C	ECE250F	ELECTRIC CIRCUITS	MON.	DEC.	16	2:00	P.M.
D	ECE253F	DIGITAL & COMPUT.SYS	WED.	DEC.	18	2:00	P.M.
A	ECE310F	INT.TO LIN.SYS.&CONT	MON.	DEC.	16	9:30	A.M.
A	ECE320F	FIELDS AND WAVES	MON.	DEC.	9	2:00	P.M.
D	ECE330F	SEMICONDUCT. PHYSICS	WED.	DEC.	11	2:00	P.M.

FINAL EXAMINATION TIMETABLE - FALL 1996

Type	Course Code & Description		Date	Time
O	ECE334F	OIGITAL ELECTRONICS	TUE. OEC. 10	9:30 A.M.
X	ECE341F	COMPUTER ORGANIZ.	THR. DEC. 19	9:30 A.M.
C	ECE350F	PHYSICAL ELECTRONICS	FRI. OEC. 6	9:30 A.M.
O	ECE353F	COMPUTER ORGANIZA.I	MON. OEC. 16	9:30 A.M.
C	ECE354F	ELECTRONIC CIRCUITS	THR. OEC. 12	2:00 P.M.
A	ECE355F	SYST.& SIGNAL ANAL.1	WEO. DEC. 18	2:00 P.M.
X	ECE370F	INTRO.TO MICROPROCE.	TUE. DEC. 10	2:00 P.M.
C	ECE410F	CONTROL SYSTEMS I	THR. DEC. 12	9:30 A.M.
C	ECE413F	POWER SYSTEM ANAL.	MON. DEC. 16	9:30 A.M.
A	ECE416F	COMMUNICATION SYSTEM	FRI. DEC. 6	9:30 A.M.
A	ECE424F	MICROWAVES	THR. OEC. 19	2:00 P.M.
O	ECE426F	INTRO.TO OPTICAL ENG	TUE. OEC. 10	2:00 P.M.
A	ECE435F	OIGITAL ELECTRONICS	WEO. DEC. 18	9:30 A.M.
A	ECE443F	SYSTEM SOFTWARE	MON. OEC. 9	9:30 A.M.
A	ECE445F	BIOSYSTEMS I	TUE. OEC. 17	2:00 P.M.
A	ECE446F	ELECTROACOUSTICS	TUE. OEC. 17	2:00 P.M.
O	ECE471F	INSTRUMENTATION DES.	FRI. OEC. 13	2:00 P.M.
O	ECE512F	ANALOG FILTERS	MON. OEC. 16	2:00 P.M.
C	ECE533F	INDUST.ELECTRONICS	THR. OEC. 19	2:00 P.M.
A	ECE534F	INTEGRATEO CIR.ENGN.	FRI. OEC. 13	2:00 P.M.
O	ECE540F	OPTIMIZING COMPILERS	MON. DEC. 9	9:30 A.M.
C	ECE557F	SYSTEMS CONTROL	THR. OEC. 12	2:00 P.M.
A	EOV220F	APPLIEO ECOLOGY	MON. DEC. 9	2:00 P.M.
D	ENG182F	EFFECT.TECH.WRITING	WED. OEC. 11	9:30 A.M.
A	ENG283F	CANADIAN LITERATURE	THR. DEC. 19	2:00 P.M.
A	ENG284F	VARIETIES OF FICTION	THR. OEC. 19	2:00 P.M.
A	ENG286F	LITERATURE & SCI. I	THR. OEC. 19	2:00 P.M.
A	FRE186F	NON-ARTS FRENCH I	THR. DEC. 19	9:30 A.M.
A	GEO410F	HYDRO.EXPLOR.& RECO.	THR. OEC. 19	9:30 A.M.
A	HPS280F	HISTORY OF SCIENCE	MON. OEC. 9	9:30 A.M.
C	JTC413F	AQUEOUS PROCESSING	FRI. DEC. 6	2:00 P.M.
C	JVM209F	ENGINEERING MATERIAL	THR. OEC. 12	2:00 P.M.
A	MAT186F	CALCULUS 1	WEO. DEC. 18	9:30 A.M.
A	MAT188F	LINEAR ALGEBRA	FRI. OEC. 13	9:30 A.M.
A	MAT194F	CALCULUS 1	FRI. OEC. 13	9:30 A.M.
A	MAT196F	CALCULUS A	WEO. OEC. 18	9:30 A.M.
A	MAT198F	LINEAR ALGEBRA	FRI. DEC. 13	9:30 A.M.
C	MAT280F	CALCULUS	WEO. DEC. 18	2:00 P.M.
A	MAT290F	ENG. MATHEMATICS I	FRI. DEC. 13	2:00 P.M.
A	MAT291F	CALCULUS III	FRI. DEC. 6	2:00 P.M.
A	MAT389F	COMPLEX ANALYSIS	TUE. DEC. 10	9:30 A.M.
D	MIE210F	THERMODYNAMICS	MON. DEC. 16	9:30 A.M.
A	MIE230F	ENGINEER. ANALYSIS I	TUE. DEC. 10	2:00 P.M.
B	MIE231F	PROB.& STAT.FOR ENG.	TUE. DEC. 17	2:00 P.M.
A	MIE240F	HUM.CENT.SYST.DESIGN	THR. OEC. 19	2:00 P.M.
D	MIE270F	FLUIO MECHANICS I	WED. DEC. 11	2:00 P.M.
A	MIE301F	KINE.&OYNAM.OF MACH.	MON. DEC. 9	2:00 P.M.
C	MIE302F	VIBRATIONS	THR. DEC. 19	9:30 A.M.
D	MIE312F	FLUID MECHANICS I	TUE. DEC. 17	9:30 A.M.
A	MIE320F	MECHANICS OF SOLIOS2	WEO. DEC. 11	2:00 P.M.
X	MIE343F	INDUST.ERGO.&'WORKPL	TUE. OEC. 17	2:00 P.M.
A	MIE351F	OECISION SUPPORT SYS	TUE. OEC. 10	9:30 A.M.
A	MIE358F	ENG.ECONO.& ACCOUNT.	THR. OEC. 19	2:00 P.M.
C	MIE360F	SYS.MOOELL.& SIMULA.	WED. OEC. 11	2:00 P.M.
A	MIE361F	SCHEOULING	MON. OEC. 16	9:30 A.M.
O	MIE371F	ENG. ECONOMIC ANAL.	FRI. OEC. 13	2:00 P.M.
A	MIE372F	CONTROL SYSTEMS	FRI. OEC. 6	9:30 A.M.
A	MIE373F	SOLIO MECHANICS	THR. DEC. 19	9:30 A.M.
B	MIE404F	CONTROL SYSTEMS I	FRI. DEC. 6	2:00 P.M.
D	MIE414F	APP. FLUID MECHANICS	THR. DEC. 12	2:00 P.M.
C	MIE446F	COMP.AIOEO GRAP.&DES	TUE. OEC. 17	2:00 P.M.
A	MIE448F	COGNITIVE ERGONOMICS	MON. OEC. 16	9:30 A.M.
A	MIE466F	OECISION ANALYSIS	FRI. OEC. 6	2:00 P.M.
C	MIE467F	ADV.OPERATIONAL RES.	WED. OEC. 11	2:00 P.M.
A	MIE468F	FACILITY PLANNING	FRI. DEC. 13	2:00 P.M.
X	MIE519F	ENVIRON. FLUIO MECH.	FRI. DEC. 6	9:30 A.M.
A	MMS150F	MATERIALS SCIENCE	FRI. OEC. 6	9:30 A.M.
C	MMS202F	THERMODYNAMICS	FRI. OEC. 6	2:00 P.M.
A	MMS207F	STRUCT.&CHAR.OF MAT.	THR. OEC. 12	9:30 A.M.
A	MMS270F	MATERIALS SCIENCE	THR. DEC. 12	2:00 P.M.
C	MMS313F	HIGH TEMP.PHYS.CHEM.	WEO. OEC. 18	2:00 P.M.
C	MMS314F	KINETICS OF MAT.PRO.	MON. DEC. 9	2:00 P.M.
A	MMS315F	ENVIR.OEGRAD.OF MAT.	WEO. OEC. 11	2:00 P.M.
A	MMS316F	MECH.BEHAV.OF MATER.	MON. OEC. 16	2:00 P.M.
A	MMS401F	MATER.SELECT.&DESIGN	FRI. OEC. 13	2:00 P.M.
C	MMS402F	SOLIOIFICA.& CASTING	MON. DEC. 9	2:00 P.M.
O	MMS420F	BIOMATERIALS	MON. OEC. 9	2:00 P.M.
A	MMS450F	PLANT DES.PROC.IND.	WED. DEC. 11	2:00 P.M.
A	PHY180F	PHYSICS I-MECHANICS	MON. DEC. 9	2:00 P.M.
A	PHY280F	PHYSICS II	MON. DEC. 9	2:00 P.M.
D	PHY385F	VIB.WAVES & THER.PHY	THR. DEC. 12	2:00 P.M.

HSL Essay Contest

Presented by: The High School Liaison Committee and the Faculty Liaison Office
PRIZE: One $150 gift certificate from the U of T Computer Shop.
Goal: Write an essay (about 200 words) for the future HSL web site (letter style preferred) offering advice to high school students and prospective applicants on the following topic:
"The 'Soft Skills' acquired through extracurricular activities are as important to potential employers and to your survival at Skule™ as the 'Hard Technical Skills' taught in the classroom".

Note: Reference to Engineering Society and other on-campus activities preferred.
Conditions: Contest open to all current U of T Engineering Students.
Deadline: November 29th, 1996 at noon.
Winner will be announced at the "End of Class" SUOS - December 4th.
Submissions and inquiries can be directed to Dan Popadynec (co-chair of HSL Committee) or dropped in the High School Liaison Mailbox in Eng Soc.
Note: Submissions should be in electronic (IOM 3.5" disk or e-mail "popadyn@ecf.toronto.edu") format.

Cannon Poll Questions

Should EngCom be freely accessible by everyone?

yes ☐ no ☐ what is Eng Com? ☐

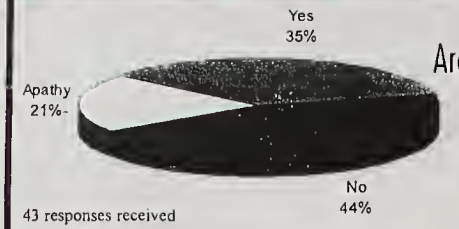
Do you think Faculty Reps should have kept their votes in Eng Soc?

yes ☐ no ☐

Please detach and leave in Cannon Box in Eng. Soc. or e-mail response to cannon@skule.ca.

The Cannon Poll

Here's what YOU think!



Are engineers addicted to e-mail?

43 responses received

Should the U of T administration be taking an active role in the planned province-wide strike on October 25?

EAA Team Stats & Game Scores

Women's

Soccer

Erindale 0-1/Lost • Pharmacy 0-1/Lost • Physical Therapy/Occupational Therapy 2-3/Lost • Victoria 1-1/Tie

Field Hockey

No Advance

Touch Football

No Advance

Ice Hockey

Erindale/October 29/2-0/Win • Law/October 23/8-0/Win • Medical Science/October 15/3-3/Tie • Pharmacy/October 9/7-0/Win

Basketball Division II

Innis/October 23/15-32/Lost • Saint Michael's College/October 16/7-18/Lost • Medical Science/October 9/26-13/Win

Volleyball Division I

Victoria/October 17/2-0/Win • University College/October 24/0-2/Default Win

Co-Ed

Basketball

Medical Science I/October 17/7-49/Lost • Medical Science III/October 21/37-19/Win • Pharmacy/October 28/12-67/Lost

Volleyball

Skule: 2-1/Win • 2-1/Win • 1-2/Lost • 2-0/Win

Engineering A: 2-0/Win • 0-2/Lost • 2-1/Win • 1-2/Lost

Engineering B: 2-0/Win • 2-0/Win • 1-2/Lost • 0-2/Lost

Electrical Engineering: 0-2/Lost • Default • 0-2/Lost

Men's

Rugby Division I

Innis/September 20/19-0 • Law/September 27/5-5/Tie • Medical Science/October 4/12-0 • Scarborough/October 18/21-0 • University College/October 27/15-0

Rugby Division II

Erindale/September 21/5-20/Lost • Saint Michael's College/October 4/36-0/Win • Trinity/October 6/Default • Trinity/October 27/Default • Erindale/October 17/10-3/Win

Touch Football

Out No Playoffs

Basketball Division 1

Trinity/October 15/64-72/Lost • Architecture/October 23/78-53/Win • University College/October 10/63-8/Lost

Basketball Division 2

Law/October 29/19-79/Lost • Scarborough/October 17/7-50/Lost • Saint Michael's College/October 22/30-71/Lost

Basketball Division 3

Erindale/October 10/24-60/Lost • Pharmacy/October 17/27-15/Win • University of Toronto Chinese Student Association/October 24/33-44/Lost

Hockey Division 1

Medical Science/October 7/3-2/Win • Saint Michael's College/October 17/5-0/Win • Woodsworth/October 24/2-2/Tie

Hockey Division 2

Law/October 20/2-2/Tie • Scarborough/October 5/3-0/Win

Volleyball Division 1

Medical Science/October 20/2-0/Win • Saint Michael's College/October 8/2-0/Win • Victoria/October 15/1-2/Lost

Volleyball Division 2

Erindale/October 22/1-2/Lost • Pharmacy/October 15/1-2/Lost • Medical Science/October 8/2-0/Win

Volleyball Division 3

Law/October 23/2-0/Win • Pharmacy/October 8/2-0/Win

Soccer Division 1

0-3/Lost • 0-9/Lost • 1-3/Lost • 1-0/Win • 0-6/Lost • 1-0/Win

Soccer Division 2

Pharmacy/1-0/Win • Saint Michael's College/0-2/Lost • Trinity/2-1/Win • Woodsworth/1-0/Win • Devonshire/1-0/Win

Anna Galea Wins Prestigious Scholarship

By Julian Dunn COMP 070

For the third year in a row, a University of Toronto engineering student has won the prestigious Canadian Engineering Memorial Foundation Scholarship.

Anna Galea, a fourth-year Engineering Science student, travelled to Montreal at the end of October to receive the $5000 scholarship. Galea was selected for the fourth-year prize after submitting an application form which included an essay about how she helped potential university students make their program choice.

Initially, Galea was unsure about what to write in her essay, but later she decided to write from personal experience – namely, how she was encouraged to choose engineering by "people who have believed in me." In her essay, she traced the beginning of her introduction to engineering to an elementary school teacher who suggested it as a career choice. She then expressed the hope that she could be a positive influence on potential students, not by necessarily forcing them to choose engineering, but by encouraging them to pursue whatever they like best.

The scholarship was established following the 1989 massacre at the École Polytechnique in Montréal. In addition to the essay, decisions are also based on marks and the applicant's extracurricular activities. Three scholarships are awarded annually Canada-wide, one each for first-year students, fourth-year students, and graduate studeots.

Eng Soc Responds

CONTINUED FROM PAGE 3

constitution changes were talked about previously. The Secretary to VP Internal change was something that was proposed last year to the incoming council in March, and it has been made known at every Engineering Society meeting since then. So it is untrue that there has been a lack of knowledge regarding the issues. If you feel that you are uninformed of the issues, you can ask your Class Rep for a copy of the minutes of any Engineering Society meeting, or you can talk to any executive member who would be delighted to answer any questions you may have.

Also, there was extensive discussion about the issues regarding changing the name of Secretary to VP Internal, and also about making Class Reps the sole voting members of their respective classes. We debated these issues extensively at the meeting. Everyone who wanted to voice their opinions were allowed to do so, and the voting was done in a democratic and responsible fashion.

It also must be noted that constitution changes are not engraved in stone. If one subsequent Council feels that more changes need to be made, they can propose them to their Executive, and voting regarding them can be done at the Annual General Meeting. However, the Officers of the Society felt that the Full Council Meetings were not working as they were originally devised, and we felt that we would focus more on the Class Reps — make them solely responsible for ensuring that they liaise with their class, and that they vote on issues with their classes' authority. The Faculty Reps that are elected by your class are your liaison with the Faculty — they voice your opinions regarding academic issues. It should be noted that Faculty Reps can speak and vote on behalf of the Class Reps if they are unable to attend. Evidently, both must work together to ensure that their class is informed of the issues - both on a Faculty and Engineering Society level. With this new constitution change, class reps must take full responsibility of their position - it is *more important than ever!*

It must be noted that the Executive Council has equal voting power to the Class Reps. We should not think of it this way. Executives also represent the student body, because we are students also! So obviously in voting about things concerning the Engineering Society, we take into account the students and speak on behalf of the students just as much as the Class Reps. That is why we have gotten involved in positions within the Engineering Society — to effectively represent the student body.

I totally encourage anyone who has any comments or suggestions about the meetings we have, or about any other issues to discuss them with me (e-mail can be sent to *engsoc@ecf.utoronto.ca*). Also, I encourage anyone who wants to find out what we discuss and what we accomplish at these meetings to come to the next Executive Council meeting on November 21st from 6-8 p.m. in GB 202.

I have never been more impressed with the hard work that has been done by the members of the Engineering Society this year. The Executives and Committee Chairs have been trying different things — holding various events, and trying to get more people involved within our Society. This has been a very positive step in the *right* direction.

If every student utilizes at least one service or participates in some way, then the Engineering Society will be doing its job.

We are confident that these changes will bring new direction to the Society.

We *must* work together to ensure that everyone is happy regarding how this Student Governing Body is run.

Eng Soc's Oral Communications Course

Thursdays for four consecutive weeks, two sessions per day in GB305

Session One: 12-1 p.m. Session Two: 1-2 p.m.

MAXIMUM OF 25 STUDENTS; NO SIGNUP NECESSARY

The course content will include general oral communication skills (e.g., posture, voice control and inflection) and public speaking where students will have the chance to speak in front of the class and receive feedback. In the final week of the course human resource personnel from industry will be coming in to conduct mock interviews.

Questions? Bring them to Eng. Soc.